08/05/04

Docket No: AM100013 C2

Patent

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re of Application of:

C. SATISHCHANDRAN and C. PACHUK

Application No.:

10/780,450

Group Art No.:

1632

Filed:

February 13, 2004 Examiner:

To Be Assigned

For:

METHOD AND COMPOSITIONS FOR INHIBITING THE FUNCTION

OF POLYNUCLEOTIDE SEQUENCES

Confirmation No.:

2128

Customer Number:

25291

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

1. <u>Preliminary Statements</u>

In accordance with 37 CFR 1.97 and 1.98, Applicants submit herewith patents, publications, or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) the information is material to the examination of this application; (iii) additional information material to the examination of this application does not exist; (iv) the information, protocols, results and the like reported by third parties are accurate or enabling; or (v) the information constitutes prior art to the subject invention.

CERTIFICATE OF MAILING 37 CFR §1.10

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service on the date written below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number ER672186133USaddressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

4,2004

J. Darrell Fontenot

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2.	Identification of Time of Filing This Information Disclosure Statement								
	a.	Intorn	iation Disclosure Statement is filed within three months of the filing date of the application.						
	b.	\boxtimes	is filed before the mailing date of a first Office Action on the merits.						
	C.		is filed before the mailing date of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.						
	d.		is filed after the period specified in 2(a), 2(b) or 2(c) above, but before the mailing date of a final action under 37 CFR 1.311. This statement includes a certification under 37 CFR 1.97(e) or the fee set forth in 37 CFR 1.17(p).						
	e.		is filed after the mailing date of a final action or Notice of Allowance but before payment of the issue fee. This statement includes (i) a certification under 37 CFR 1.97(e), and (ii) the fee set forth in 37 CFR 1.17(p).						
3.			fication under 37 CFR 1.97(e) and 1.704(d) undersigned attorney certifies						
	a.		that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement, or						
	b.		that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the statement.						
	c.		certifies that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign application patent office in a counterpart foreign application and was not received by any individual designated in 37 CFR 1.56(c) more than thirty (30) days prior to the filing of the statement.						
		A leg attac appli natio	ly Cited Information gible copy of the patents, publications or other information cited on the ched form PTO 1449 is enclosed, except that no copy of a pending U.S. ication is enclosed, and if this patent application was filed or entered the onal stage after June 30, 2003, no copy of a U.S. patent or U.S. patent ication publication is enclosed.						
		No conformate to the under Prior for M	iously Cited Information copy of the patents, publications or other information cited on the attached PTO-1449 is enclosed because it has been previously cited by or submitted e Office in a prior application which is relied upon for an earlier filing date or 35 USC 120. Tapplication is Application Number 10/009,134, filed on October 20, of 2002 METHOD AND COMPOSITIONS FOR INHIBITING THE FUNCTION OF YNUCLEOTIDE SEQUENCES.						

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Patent

	Concise Explanation	
a. b.	 Documents cited above which are not in the English Language have been explained in the specification. have an abstract (or other concise explanation) in English enclo readily available a translation into English of the document is en 	
Forn	n PTO-1449 is enclosed in duplicate.	
	Fees Fee for filing under 37 CFR 1.97(c) or (d) Fee: \$180.00	
Cha	nod of Payment of Fees: rge Deposit Account No. 01-1425 in the amount of \$0.00 uplicate of this statement is enclosed.	
Cred	fuctions as to Overpayment/Underpayment: dit any overpayment and charge any underpayment to Deposit Account 425.	No.

J. Darrell Fontenot Attorney for Applicants Reg. No. 46,705

Wyeth Patent Law Department Five Giralda Farms Madison, NJ 07940 Tel. No. (845) 602-3144

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Substitute 10Horn 1449/P10	Application Number	10/780,450	
FORMATION DISCLOSURE	Filing Date	February 13, 2004	
AUS 11 4 2004 W	First Named Inventor	C. Satishchandran	
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·	Examiner Name	To Be Assigned	
Shoot 1 of 2	Attorney Docket Number	AM100013 C2	

	U.S. PATENT DOCUMENTS						
		U.S. Patent Docume	ent			Pages, Columns, Lines.	
Examiner Initials*	Cite No.	Number (If known)	Kind Code (If Known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
	1.	. 4,891,315A		Watson, et al. 01-02-19	01-02-1990		
	2.	5,631,146		Szostak, et al.	05-20-1997		
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	4.	2001/0008771A1		Seibel, et al.	07-19-2001		

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	6.	wo	97/34638A		The Regents of the University of California	09-25-1997		
•	7.	wo	97/07825A		The Regents of the University of Colorado	06-03-1997	*** · · · · · · · · · · · · · · · · · ·	
	8.	WO	98/05770A		Werner, Dieter, et al.	12-02-1998		\vdash
	9.	wo	99/53050A		Commonwealth Scientific and Industrial Research Organization	10-21-1999		
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	11.	wo	03/006477A1		University of Massachusetts	01-23-2003	718874	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	т
	12.	JAEGER, J.A., ET AL; "Improved Predictions of Secondary Structures for RNA"; Proceedings of the National Academy of Sciences of the United States; Vol. 86, No. 20; Pgs. 7706-7710; 1989.	
	13.	NELLEN, W., ET AL.; "What Makes an MRNA Anti-Sense-itive?"; TIBS Trends in Biochemical Sciences; Vol. 18, No. 11; Pgs. 419-423; November 1, 1993.	
	14.	MIKITA, T., ET AL; "Effects of Arabinosylcytosine-Substituted DNA on DNA/RNA Hybrid Stability and Transcription by T7 RNA Polymerase"; Biochemistry; Vol. 33; Pgs. 9195-9208; 1994.	
-		YUKIKO, TONE, ET AL.; "Structure and Chromosomal Location of the Mouse Interleukin-12 P35 and P40 Subunit Genes", European Journal of Immunology; Vol. 26, No. 6; Pgs. 1222-1227; June 1, 1996	
2	16.	PLAYER, MARK, R., ET AL.; "Targeting HIV mRNA for Degradation: 2,5-A Antisense Chimeras as Potential Chemotherapeutic Agents for AIDS"; Nucleosides & Nucleotides; Vol. 16, No. 7-9; Pgs. 1221-1222; July, 1997.	
	17.	JORGENSEN, RICHARD A., ET AL; "An RNA-Based Information Superhighway in Plants"; Science Magazine, Vol. 279; Pgs. 1486-1487; 1998.	
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,		WATERHOUSE, ET AL.; "Virus Resistance and Gene Silencing in Plants can be Induced by Simultaneous Expression of Sense and Antisense RNA"; Proceedings of the National Academy of Sciences of USA, National Academy of Science; Vol. 95; Pgs. 13959-13964; November, 1998.	
	20.	TIMMONS, L AND FIRE, A.; 'Specific Interference by Ingested dsRNA"; Nature; Vol. 395; Pg. 854; October 29, 1998.	

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Cub-stant-	Substitute for form 1449/PTO					Complete if Known			
Substitute	or form 1	449/PTO				Application Number	10/780,450		
	11	NFORMATION DISCL	LOSURE			Filing Date	February 13, 2004		
	s	TATEMENT BY APP	LICANT			First Named Inventor	C. Satishchandran		
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Sheet		2	of		2	Attorney Docket Number	AM100013 C2		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
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	21.	FIRE, A., ET AL.; "Potent and Specific Genetic Interference by Double-Stranded RNA in Caenorhabditis Elegans"; Nature; Vol. 391; Pgs. 806-810; February 19, 1998.	
	22.	BAHRAMIAN, MOHAMMAD B. AND ZARBL, H.; "Transcriptional and Posttranscriptional Silencing of Rodent α1(I) Collagen by a Homologous Transcriptionally Self-Silenced Transgene"; Molecular and Cellular Biology; Vol. 19, No. 1; Pgs. 274-283; January 1999.	
	23.	WIANNY, F. AND ZERNICKA-GOETZ, M.; "Specific Interference with Gene Function by Double-Stranded RNA in Early Mouse Development"; Nature Cell Biology; Vol. 2, No. 2; Pgs. 70-75; February, 2000.	
·		PARK WEE-SUNG, ET AL.; "Inhibition of HIV-1 Replication by a New Type of Circular Dumbbell RNA/DNA Chimeric Oligonucleotides", Biochemical and Biophysical Research Communications; Vol. 270, No. 3; Pgs. 953-960; April 21, 2000.	
	25.	CAPLEN, N.J., ET AL.; "dsRNA-Mediated Gene Silencing in Cultured Drosophilia Cells: A Tissue Culture Model for the Analysis of RNA Interference"; Vol. 252, No. 1-2; Pgs. 95-105; July 11, 2000.	

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	1.	4,891,315A		Vatson, et al.	01-02-1990		
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	9.	wo	99/53050A		Commonwealth Scientific and Industrial Research Organization	10-21-1999		
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